IF 25 PU

Solvent Based PU Coating Floor and wall coating
Pack Size
22Kgs, 11Kgs

TDS
Technical Data Sheet

Product Description

IF 25 PU is a two-component aliphatic polyurethane coating designed to offer exceptional UV and weather resistance. It is an ideal protective coating for exposed surfaces, providing excellent durability and stability under light and weathering conditions. The coating forms a hard, tough, yet flexible film that demonstrates strong resistance to solvents and gasoline. IF 25 PU is available in a variety of colors to suit different application needs.

Technical Data

Pot Life at 30°C:	4.5 - 5 hours
Adhesion to Steel & Concrete:	Excellent
Coverage:	6-8 m²/L at 75 µm
Drying Time at 30°C:	Surface Dry: 30 minutes Hard Dry: 6 hours Full Cure: 7 days
Impact Resistance	>100 kg·cm
Hardness (Pendulum, after 7 days curing):	195 seconds
Temperature Resistance:	Up to 120°C
Weathering Resistance (QUV):	1000 hours
Finish:	Glossy
• Volume Solids:	50-60%
• DFT (Dry Film Thickness)	: 60-75 µm

Recoat Time	Minimum: 6 hours Maximum: 48 hours
Abrasion Resistance:	40 mg
Flexibility (Conical Mandrel):	<1 mm
Application Temperature: -	10°C to 40°C
Flash Point:	>23°C (Base and Hardener)

Applications
IF 25 PU is suitable for use in a variety of industries and settings, including onshore and offshore facilities, power plants, petrochemical and pharmaceutical complexes, cement and steel plants, transportation industries, infrastructure projects, chemical plants, and running tracks.

Advantages
Outstanding UV and weather resistance
Superior adhesion and flexibility
Moderate chemical resistance

Application Methodology
Ensure the surface is thoroughly cleaned using oil-free compressed air, sandblasting, wire brushes, or other mechanical methods to remove rust, oil, grease, dirt, and any other loose particles before applying the primer. IF 25 PU is applied as a topcoat over a suitable anticorrosive primer or intermediate coatings. For aged coatings, roughen the surface with emery paper grade 400/600 to enhance bonding.
Apply the product only on dry surfaces. Stir Component A and Component B separately. If settling is observed in Component A, first loosen the material manually, then mix thoroughly using a power-driven stirrer to achieve a homogeneous consistency. Gradually add the hardener to the base while continuously stirring.
After mixing, apply IF 25 PU using a brush, roller, conventional spray, or airless spray. Use a compatible thinner to achieve the desired workability, with thinner volume varying between 5-15% depending on the application method.

Spray Application Guidelines
Conventional Spray:
Thinner: 5-15%
Nozzle Orifice: 1.2 - 1.4 mm
Nozzle Pressure: 40-70 Psi
Airless Spray:
Thinner: Maximum 5%
Nozzle Orifice: 0.28 mm
Nozzle Pressure: 1400 - 1800 Psi

Cleaning & Maintenance
Clean all tools and equipment immediately after use with xylene. Do not allow the material to harden on tools.

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Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.

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